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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,114	12/12/2003	ChiaHua Ho	MXICP024	1904
25920 7:	590 09/26/2005		EXAMINER	
MARTINE PENILLA & GENCARELLA, LLP			LE, THONG QUOC	
710 LAKEWA SUITE 200	Y DRIVE		ART UNIT	PAPER NUMBER
SUNNYVALE	, CA 94085		2827	
			DATE MAILED: 09/26/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	- U
	10/735,114	HO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Thong Q. Le	2827	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	vith the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this commuNBANDONED (35 U.S.C. § 133).	
Status			
1)☐ Responsive to communication(s) filed on	s action is non-final. ance except for formal ma	·	nerits is
Disposition of Claims			
4) ☐ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to be a compared to be a compared to be a correct to be a compared to be a correct to b	cepted or b) objected to drawing(s) be held in abeya ction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in a prity documents have been nu (PCT Rule 17.2(a)).	Application No n received in this National St	age
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-1	52)
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date Informal Patent Application (PTO-1	52)

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DETAILED ACTION

1. Amendment filed on 07/18/2005 has been entered.

2. Claims 1-20 are presented for examination.

Response to Arguments

3. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Nickel et al. (U.S. Patent No. 6,927,995).

Regarding claim 1, Nickel et al. disclose a magnetic random access memory (MRAM) cell (Figure 2), comprising:

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a word line (Figure 2, 30);

a bit line perpendicular to the word line (Figure 2, 28);

a magnetic device (Figure 2, 10) disposed at an intersection of the word line and the bit line; and

a pair of writing magnets (Figure 2, 24, 18), each writing magnet disposed at an end of the magnetic device (Figure 2), wherein the pair of writing magnets switches a magnetic alignment of the magnetic device during a write operation (Column 2, lines 35-36, Column 3, lines 59-67). More specifically, Nickel et al. disclose wherein a current in the word line and the bit line generates a magnetic field on the pair of writing magnets during the write operation (Column 3, lines 59-67), and wherein the pair of writing magnets and the magnetic device are aligned along a long axis of the memory cell (Figure 1), and wherein the long axis of the memory cell is not aligned with the word line and the long axis is not aligned with the bit line (Figure 2), and wherein the magnetic device includes a magnetic tunnel junction (MJT) (Column 1, lines 15-16), and wherein the magnetic device includes a giant magnetoresistance (GMR) material (Column 1. lines 15-17), and wherein the magnetic device includes a colossus magnetoresistance (CMR.) material (Column 2, lines 30-40), and wherein the magnetic device includes an anisotropic magnetoresistance (AMR) material (Column 1, lines 50-60), and, writing magnet includes a soft ferromagnetic material (Column 2, line 45), and writing magnet includes a general ferromagnetic material (Column 2, lines 45, Column 4, lines 57-67).

6. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Hosotani (U.S. Patent No. 6,829,162).

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Regarding claim 1, Hosotani discloses a magnetic random access memory (MRAM) cell (Figure 2), comprising:

a word line (Figure 3, 13);

a bit line perpendicular to the word line (Figure 3, 23);

a magnetic device (Figure 3, 16, 21) disposed at an intersection of the word line and the bit line; and

a pair of writing magnets (Figure 4, 102), each writing magnet disposed at an end of the magnetic device (Figure 4, 102, Column 4, lines 35-40), wherein the pair of writing magnets switches a magnetic alignment of the magnetic device during a write operation (Column 8, lines 54-67). More specifically, Hosotani disclose wherein a current in the word line and the bit line generates a magnetic field on the pair of writing magnets during the write operation (Column 8, lines 54-67), and wherein the pair of writing magnets and the magnetic device are aligned along a long axis of the memory cell (Figure 18), and wherein the long axis of the memory cell is not aligned with the word line and the long axis is not aligned with the bit line (Figure 18, 20), and wherein the magnetic device includes a magnetic tunnel junction (MJT) (Column 1, lines 20-41), and wherein the magnetic device includes a giant magnetoresistance (GMR) material, and wherein the magnetic device includes a colossus magnetoresistance (CMR.) material, and wherein the magnetic device includes an anisotropic magnetoresistance (AMR) material, and, writing magnet includes a soft ferromagnetic material, and writing magnet includes a general ferromagnetic material (Column 4, lines 9-67, Column 5 lines 1-67, Column 6, lines 1-30).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai V. Ho can be reached on 571-272-1777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thong Q. Le Primary Examiner

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